Ohalua Infantum John W. Simpson admitted March 6th 1019

A depertation on the disease called, Cholina hefantum.

When we or fast ou the waters of this disease, the revoluting which follows its stips, and the frequency of its occurrence, it roust sticke the result with surprise that it has been so a storistingly overlooked by the Medical secoled. Seither arroung the workings of the Medical thread of our own wentry, ser of Europe, is then a line to be found, which enright lines us to believe that it was restract as a distinct cisease, till the thing of Dr. I close one of a server heat by bloghore on the disease of Minorea.

It is to the enlighted of our own happy country that we are inditted for the history and treatment of this disease, and particularly to Nor. Pelish who has given the runt intensiting and claborate account of be defectivers. It has since been noticed by Sor. Miller of Majork and Do. Sachson of Boston, but their accounts of the risting of the disease, differ in accounts when the transfer of the disease, differ in account, material point from that of Son Bush. Illhough the latter has given ac good an history of the disease before ins,

yet he was ustainly wristaken in his pathological views on the discour, and we are indebted to the Brof for he now occurpies his chair for the most comet theoretical views of the subject and hence for the most judicious practice.

Obeliva defautiers, as its name imports, is present on to establem. Hopeway in Them Grown the age of one or time weeks after beth, lit the age of the year His a distance of war what after the the age of the year His a distance of the weeks was an endemented in the chief to give make summer of the "Appeal and Many disease?" from the appearing in that elimited generally in these two ments; but it is relative menion Philadelphia, rays to please, that the saidely of home or beginning of thely and question the account little was the minerally of sufficients from the account little was the minerally of the to be brought on and highly aggravated by the have written it, to be brought on and highly aggravated by the head of the weather producing in the little victimes grand solaration and ability, which is a farminable state for the meeting though morbid importance.

It is if the ushers in with diarrhaa of a form so will astructed no great sole or trick respecting the result, animhed

continues for several weeks without superventions of any gastrie irritation. Sometimes it commissees with mausea and vomiting alone, and not unprequently it apinnes at the commencement, the form of the & Morbes of adutts. he these different modes of attack, the matter discharged, generally evinces the presence and hasty accumulation of bile. His most commonly of a green or yellow color, but sometimes it is limped and without bile, rescubling drinks and aliments which have been taken into the stomach. From are not unfragmently discovered in these different kinds of exorctions. at this time the child often seems to be in great pain, and it is frequently, only by this and the Jollowing symptoms that we are assable of forming our opinion aste the nature of the case: Suchas, great restlepsup, showing no disposition to be appeared or quited, a forcible drawing up of the Knus, Juquent and sudden screaming. The proquently observe a great imquality in the temperature of the body: The head communicating a serve of great heat and apparent fullup, while the feet at the same time not unusually warm and sometimes getet cold. The pulse quick and weak. Delivium now causen. The child types itself about, Throwing its

head backwards, which leads our tabelier that there is a great determination to the head. roundings it allempts to covatch all bits its attendants and often theely.

The fore case blighon is periodical, but of the exitte Rivel without any freet type. His cased by Er. Beek to have apured the Recentlent lype discovering event account the uperially in the serving. The lett Er. Barton, in his letting, actions in this letterwatte, thinks it constitutes puts not to character of an Interestitut, constitute of a Recentlent, and that it is not suppresently existin.

Happan, to be wholly influence by and optiming the type of the dinear so occurring in the seem extraction, and produced by the came causes, whether Internitient, Premitteen, or erretic. It is few attended with a blocked face, evolute abdown and exclanations lively; and so great is the thirst in way stage, that it came impossible to have the petrous ories, or top the almost invessing machings after drink, or flowed so desirable by the dry tangue and Jacon. Whe eyes are langually hollow and is invenicible to light or otherwise redistances, that His han been securit light on them when only half elevel, as

is their general practice, when sleeping without eviting any motion whatever, the disease is constinue fatal in a few days. Or. Rusch mentau it array to a shell in twenty-four hours, but it is guess ally fortunated for several weeks, with occasional variations in its approximate. It is much injuncted by the state of the weather, has unather increases its violence, but all wrather, on the entrary, dispose it to a money accountable invincion. When the disease has been trept up for some time, the approach of each it is gradual and structured with a removement of distorping symptoms are a series attended with a remove of distorping symptoms of an early them concentrated for the lover, a though and long them? force, affile in the month and though any applially succeeds and close the heal, trajec seems.

This, like all of the dinano which are impropelly underthose, have been avoided to luncal accurs; as Novemes, direlition, cummer fruits, and miasmatic poison.

That women are not the cause of he hazareleen, is supficiently prover from its not yielding to the best authorizing mediance; from no comes, in a reajority of cause, being discharges during the groupes of the disease, and from now being



detected in the alimentary canal from difection afterdust produced by this disease. On the contrary, so far from thinking Them a cause of disease, some writers have suggested that worms are recepany to the health of shildren . it. Rush was of this opinion. He says, "When evecousider how universally worms are Your in all young animals, and how Inquestly they exist in the human body without producing dinase of my kine, it is natural to conclude that they serve some useful and necessary pour pares in the arismal isocromy. We they conserve the superfluory alirucut which all young animals are disport to take before they have been taright by expresience or mason, The bal convequences which might arise from it? This learner writer, even goes few then "Is it not probable, That children are someting disordered for The want of worms? Whis opinion, Though apparently too en-Huriastic, at all events may go through to disprove the prota letity of worms being a course of b. Infantum. His not un. common for author, though distinguished for their corrections of observation, the led inte error while seeking an hypotheses. Men are apter to believe too week than too lettle. His eerlandy endent that great irritation of the abountary and con-

^{*} Ruskis Morky - pg. 217 + " " 219



esquently fives is often brother to the brosene if went, and although they have never been forward to be a cause of the disease under consideration, may they not when promet at the time, protect, and aggreeate the clinary?

As much may be rate of detilition. b. the particum is continued to extend to cover of the year, but detailition is not. The former of the texture children before at a as often after the period of the latter, though they are sentence to temporary, and where this is the case. bholera is undoubtedly aggravated, for decrebing it is not fitted from the differing in some no prets from the disease before us.

As suprets enumer fruits being a cause of the he facilities, there is by no much an unany art in the following. It is a popular be light that only rounds are invocat; come think salutary. This is an error for any think mishing thinks reprospect, and though a mortain the latter state. They ancestainly preductive of the complaint on are considering? An ecustive time, diarretically opposite, Er. Peurh, whom observations are always heard with deference, says, that the direase

* Remarks on & Infantium by Br. Galdwell. L. Bullewood 2 pg 357



is little known in country places where children eat much more fruit than in cities. As par as I have observed, I am duports to believe that a moderate use of ripe fruits rather leurs to prevent, Than to induce disease" the Mappi clour also, which certainly sucritattention, go to constorate those of Dr. Rush . A medium here, which is often the safest, ofpravite me hast questionable. I few apparently nell morhed cares of b. he paretum cornermder my notice in South Carolina in the year 1817 at a season when the freits of varion kinds were not get rips, and from every circum. stance I was induced to believe that they were induced be an improper use of the envilor fruits of the season. at that time there were but few or no miasmatic diseases, hence I infer that there cases were not produced by their most common causes. Is it irrationate suppose that highly indigislible unrips bruits, taken into a stornach, the habits of which are not matured by age, partienlarly whom the sewoeth bility to morbid impressions is increame by the sure men heat, should be adequate to the production of such a dinare? But Sam disposed to

^{*} Rusk's works.



In live that a lungiciate use of ripe fruits are of themselves hamily and in some acres wentereficial. They would been to be serviceable, at least, when worms were present to aggravate the disease. Aleanus writer observes," nature has wisely quarded exildren against the mobil effects of worms, by implanting in Them are early appetite for common catt, ripi fruits, and saccharin substances, all of which appear to be arriaged the most speedy and effectual porsons for wornes " " Wor are they alone important in These cases, but They appear to be beneficial in obviating the consequences of a wrong action in the liver, a circumstance that requires some attention in the treatment of the disease before us. The same writer observes, The bile is a succepary part of the animal fluids, and yet an appointe for ripe points to. seems to be implemented a hiefle to obviate the consequences of its erech, or acrimony, in the summer and autumnal . nouths?"

with this , I shall proceed to what I deem the most common cause of the the fautum.

When we take into view the time of its approvance,

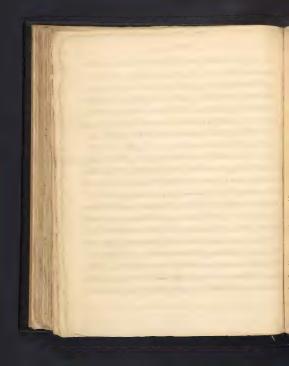
^{*} Rush 1:0/4 -



which, in Philadelphia, as before mentioned, is a bout the middle or beginning of here, but in warmer climates, as in Charleston, at an earlier geries; and the diseases with which it generally comes hand in hand, as hetermittriels, Parmittents, Eysenteries 4. we are compellie te draw a conclusion that it must be, like its companions, most generally, a miasmatic disease, in other words, a desease ariving from an impure atmosphere. The miasmatic poison arising from the pretrafaction of animal and begetable matter, a harges the atmosphere and not improquently discovers itself in the production of b. Repartum before any other of the diseases of the season. In adults, where the animal function, are exupletely der Alopee and strenothering by habit, the acrimony of the miasmatic poison is often "Ulwited and rendered incapable of of acting whom a constitution sufficiently rebust to resist the debilitating in-Human of the summer season. But at an early age, where there is an imperfect development, and a great demand for all the energy and vitality to complete the get unfinished fabrick, the powerful effect of a summers



sum, easily breaks through the feeble extention, enervates the system Thereby rendering it alive to every anorbid inpropiow. Hence the susceptibility of children to disease, somer than adults. and for the development of the disease already societing in the system, there are not wanting many exciting eauses, as errors in diet, the sensi-He qualities of the atmosphere H. That the morbific in-Univer of these miasonata over the system, whether originally exerted through the medium of the obfactory nervis, the lungs, or whether earried directly into the alimentary canal, takes its seat and throng in the stomach, and not in the biliary organs, as somehave supports, is made evident from dispection. The brain exhibits no morbid appearance and the viscera of the thorag are as little affected. It is on the contents of the abdornen that the disease expends its whole force, and particularly whom the nucous membrane of the alimentary canal. Das to lind spots are to be seen on This coat of the stomach aid small intestines, but repreciably the duoden um: and hence I infer that the true least of the disease is in the



Stomach involving the eanal in its disorder by continuous sympathy. The hepatic apparatus is much demanged the lines mortgumally increase in sine, and its evertion variously ritially and attent in its nature, but very circumstance empells us to say that it is never circumstance empells us to say that it is ancest probably like be Morter, in the commencement a gastric disease secondarily affecting, by sympathy, the beliary organs.

Considering the situation of the Structor in the center of the system, the empodemen of its generalised some of its generalised for its give early information of any imparion, its great enjoying of love to aid and enjoyed it in all its operation, and the harmonicon connection of the whole system; we are indulated to be that the first link of the great about, as the that the first link of the great about, as contain in that organ, that it is the principum saliens the point of action, and that its formasion through the whole system, is as radio from a center. If this despite in view in the treatment of this devices, and the first inducation to be pursue, is



winced by The primary sympotonis.

It be more explicit in the treatment, it would seem proporte make some methodical arrangement of its several indication, which I have done in the order in which They seem to present themselves.

Nos. The could ling of Gastrio & Intestrual irritability. It The obviation of Intestinal inflammation.

3 The alleviation of chronic hitestical irritation.

4th. Removing supervening debility.

Abefor mentions, the diman usually commences with a disorder condition of the withestery canal. But as the regards the presence course to be persual to such the set of persual through the services of persual through the is by no means a little difference of perium. Disording on the times couply in this etag of the discre, such as, the cleur receives on the state of the discre, such as, the cleur receives on the state of the course received on the course with a case. In cases attended with great gratue intention, we have medically great mechanics account of the with the case of the course we have one calculated to calculate to calculate the calculation of the wint a calculate to calculate the calculation of the course calculated to calculate the calculations of the calculation



organ: These are formentations to the opiquistric region, warm bath, anodyne injections, blisters over the region of the stowach. Internally, linewater and milk, of each a table-spoonful, a Gavourite remedy, in such cases, of our distinguished Profepor of the practice of Physic. The saline draught is also highly servicentle, as it not only tends to quiet a disordered stomach by its oron action, but by producing a determination to the surface. Opium is not less beneficial, and to these may be added many other articles, as cordials &c. Well adapted as There may seem, in very violent gastrie affections, They sometimes fail. In this place, where there is incepant ouriting, thirst, Jebrilo heat on the surface, and a quich and irritable Sulse, nature appears to point out and urge the remedy best adapted; which is an Emitic, and for this Jourpore, Specacuauha is preferable. Notwithstanding many maetitionen andeum This practice, it is recommendid by Er, Chapman whore correcting of observation and practice is not to be questioned. He says, certainly when



There is no mason to suspect active inflammation of the alimentary canal, they may tapely and effectually employed. They relieve the stomach of its contraits and impart town and strength to that organ so as to prevent the neurrence of counting. But they do more. By determining to the surface they invite diseased action from the internal parts and equalize the action and weiterwent of the body" To aid in the first indication, 20 soon as the tomach is sufficiently quieted to retain medicires, purgatives may be administered with advoutage, and calound appears to be best a dapted. It not only Thoroughly evacuates the contents of the stomach and intestines of their offending matter if the be any, best it certainly has a spraific actionin correaling a wrong action of the repatie system which may, serhaps, by This time, have been Sympathetically brought into a disordered state, thereby Keeping up initability of the Stornach and intestines. It is further best adapted, because its done is very small in quantity, and its taste can be easily disquised; besides, its



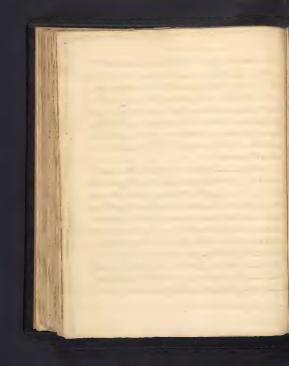
operfice gravity is regreat that it will not be easily nejectice. One value of this medicine is not a little increaced by the addition of operan which will not only made
the additional larger that it may have its full cation,
but mitigates or other circumstances may forthe
the use of Merousy, we may recort to the use of the Mentral calls which are well exited to the discount of the
bourds. Among them, the Sulphate of Magneria, or
loster catt is thempt to be to write to positive orange in
case of a histories. It opposes to have the power, because
zingly ware acting the instability of the alimentary
caucal of questing the instability of the stowach
which is of great measured in the treatment of the
discourse under consideration.

Being fully goursuaded, and having as good anthouty as our professor of the practice or have that the discharge is growing and kept up from a primary irritation scatted in the stomach, I would not occurments punging very espionaly, unlife them were great



accounteration of bile. Happean only important to make use of such wine die wan calculated to quiet the irritalists of that regue, and the development when you will gradieally subside. Purgative, on the centrary, when would to freely, must estainly be injurious by giving a centrificted direction to the circulation, and there can expectedly producting intertural inflamments, the prevently producting intertural inflamments. The provention and trusteness of which brings not our second indication.

The remedies that are useful in the Excession indication, which is to prement and must inflammation, are uncle adapted to the first it is the first of its remains of the acceptance of the secretary of the discess, as most of the bourle decrease, is for the most part invidious; it ought therefor to be used unthe cartier, but at the came time unth a liberal hand when the care at the came time unth a liberal hand when the care decreases it. Defrodeon prome to us how fat ally it has often been negligible of our contenion, we will most certainty be lied into error. In for profile clock of the register, when the pulse for our contenion, we will most certainty be lied into error. In for



The nost paus tid coulilion, veriestetion is the sure, and in many cases, the only remedy; but it must be used with circumpration at first, till the system react, then detroit copiously. It is the opinion of Dr. Chaperian, that it has heretopone been used too sparingly. The detraction of bloss is not only serviceable in inflammation by lepening the eirculating "serid and producing an equilibrium in its distribution, but it proposes the way for other servedies met lip important. ethler the alimentary canal has been Inford evacuated, and arterial actioned lepents, it away be proper There to administer such medicines as may produce a determination to the surface . These may be so combined as to lipen the soisting critation, and to act on the biliary organs, while they determine to the surface. For this purpose, take oficeru, caloruel and iprocas. in such proportions as are adapte to the age of the chield and circumstances of the case.

To aid in The point, The warm both is encinently convecable, and portioned or by investoring that equilibrium of temperature on the surface, which, as before



statud, is often vaciling. This should be usted aity and oftener if we spary. It way be rendered more stimulating if negetive, by the addition of satis, United, Exquence people, or ardient spirits ve. As auxiliary to the recovery measures, and not left important, or snay apply this test the spigastice region, to the abdonum, or so to the abdonum, or so

After inflammation of the intertions has been reduced there till accurate a discord action, bethefor confirmed by hotely which keeps up the discharge attended termina and tenesories, and not unusually with gastre inclability. This is our thirs consideration. By composition, much coins are happely adapted to seem at cympitions at the came time, and here we may or existence them as to must then an eye to the state of the first place, we must have an eye to the state of the clonach, which gerhaps, may be initiated by an every of acid, to must the, the alkaline and ever tareous medicines are best suited, and any one of these, when continue on the an anodyne, forms a



prescription well adapted to present circumstances. The following articles are preferred. Line water, carbonate of Totash, or oreta ppt. with land to which may be added, come communative as Cinnamon or perpenuint waters. with a little sugar or mucilage. Rheubart may sometimes be added to These preseriptions with great advantage. Under These circumstances when their is much acidity and great intestinal irritation, a favourtte prescription of Dr. Chapmans, is The following. Ry. Ol: Ricini Zj. Sac. album Zj. Thewhites of eggs ij Rub down the a hole together till a complete misture is formed, Then gradually add, Stirring There at The same time aqua calcis zv. Vinet. Opii xx atts. This, he in for us us will remain out the storeach when other proparations of will be riveted. The irritations is often exceptive and to subcleve This, anodyne enemata will be found best adapted. For wentations, warm bath and blisters should also be used in This stage to subdue inretation and counteract disease action.

The disease not bing checked at this stage,



Thericleme of the pain and institution or utsides and we find the parties of a lovering under a chronic state of diarrhoa attendie with, and often dependent upon debility of the stone of and intestines. Which brings as titheon sideration of our fourth and last indication

The protraction of the disease into this stage, seems to defend upon two prime causes; either debitity of the Towach and intestines, they being exhaustic by previous irritation, or a disordered state of the hepatic system. Whether it be defendant upon the first or seccould of these causes, the idication is equally obvious. Is upon the first, Jonies and astringents have certainly been wisely resorted to. The whole catalogue have been employed, but many are excluded by common consent and as many more have but few advocates. Every practitioner has some one, two, or three or more of these articles which herecommends as superior to all others, while other physicians, perhaps, exclude them as entirely inest. Without pretending to account for this discrepency of opinion, I shall go on to select those articles which stand



camparatively unimpenched. Among the numeral astringents, alures has been wied with great succep, a no is not a little hightened in value by the addition of opium in the proportion of is or iij of the Former to ye or so of the latter. Moreley's solution, a proparation of aluru and sulphas Timei, is a remedy much establis by some and varticularly by the late Dr. Barlow in chronic diarrhaa, and berhaps might be useful here from its eminently tonic powers, but from its occedingly nauseating effects, might, perhaps, be propriety excluded in favour of other articles is hich are without & we he seiftions. The sac: sat: has been lately much recommended, but Dr. Chapman has used it and with but little sensible benefit. We may here add that the mineral acids, as in diarrhaa of adults, suchafes might be serviceable in this disease. The sulphune and Mitrie have been chiefly used and of these the Nitrie has the greatest tille to a seconumendation.

There are a great variety of articles from the vigotable kingdow that are emportant acquisitions in the treatment of this claye of the dearest before us, as kine,



Galls, &C. There are often advantagiously prosocitio in nonbination with the evitacious preparations and First Opis. arriving those of the highest reputation in this city, is the Harriatorylow campecheuse which went a little inhave in value by being use and highly neou mended by our very learned and encuent professor of surgery. It may be admirintered in the form of infection in the dose of a deport spoonful every two or three hours. Author which as recommercial and orifered to all others by Don Chafernan, who has had ample testimony, from personal experience, of its teletity in This Stage of the disease, is the Rubus Procumbers (or Dowberry). He observes, that the root of this plant is an agreable arematis, and not only lies well on the stomach, but is so powerful and active an astringent, as often in a few days to put an end to the complaint; and sometimes it was becomes necessary to presoribe lagatures after it." To prepare it, take of the bruised root z and bour on it of boiling water the The Rubus villoses is also an excellent astringent, but a little infereor to the procumbers. Mild astringent injections might not be improper in This stage of



the disease, as a contination of starch and with with a small quantity of direct. opii. But what I have reason to be live a very important remedy, is a daily use of a - lest id bath of a decoction of the bank of the Red-oak, or Quer end subra of Botainsts. His undoubtedly, emineut ly touce and astringent; and does it not do good by impartry tone to the skin, which bear, the closest sympothetis ennection with the stomach and intestines, thereby giving tome to Those viscera and disposing Them to a healthy action. Besides, it may produce a slight determination to the surface which origits to be kept up by wearing flaverel next the skin. I have seen two or three childrew so far advanced in this stage of the disease asto beharrafied with a very sore mouth, one of the symptous of a fast approaching disdution, and when all other remedies were unavailing, speedily to recour under this plan of trialment. The bast waistoot has been highly recommended by some, and, prohaps, acts upon the same principle. Wight not the flannel roller be here, beneficially employed, which is re-



communità in chraice diarrhaa.

If the disease be hipst up by a wrong altion of the hepartie organs, we have sufficient evidence to warrant us
in the brief that movering interfer and effectived as in
describes of adult le kept with by the same cause. One yere
on bourd complaints to downs, That which is one of the
supported a record that of the bile, which is one of the
most concernon causes, share with it with great encels.
Aban by & grain of caloned evening and morning, or
by giving a grain every sensing for a write orthin days, seprovide dears have, even when the medicine was admininterior under the most conformising appearances.

In Jurther confirmation of the office og of Morenny conder the prosent einemistance, Dr. Undernott say, conder the article diarrhaa, alle ding fortally to the epecing of clear haa, calle, crawing brash, the This as well as in other boul affection, to for described, when larative, altalism and abordent medicing, then the provide the process of feet, calculated processing of the process of the calculation of the process a service of medicine of the process a service of medicine of the process a service of medicine of the process a service of the process of the calculation of the process a service of the process of the calculation of



The opinion arts prostice of Dr. Americang everler rates the above. These references belong to different devices belong to different devices belong to different devices. They arguir an identity of traditions. It has tame assess that the authority of almost every produced one of surdicine you though the surface of adults dependent upon a villable belong secretain which would live from a villable belong secretain which would live from a village to the server what would fabril the server. But if there is no described in the second would fabril the un of Moroury we may see it with a decantage to Mittie act. On Seth Jasuil physician to the Ouk. of Miciliaglan, says that the numerialic acid is incomparatly superen when the disease is kept up by a disease liver.

But in spite of Medical skill this disease not engaging renders on with rapido 5 trids to a fatal terrination. Ais exhimitencial frida has been for it from in submission to this intractable mouster, a source at the country has produced an invacidate and happy change in the patenties which it is now strongly inculated by every center on the subject, to resort to an early source at the tree country. But if from



"pecuriary; or other circumstances it is impracticable, the dais ly practice of earrying the patient in an open carriage to a purer atmosphere, isimportant. But what Dr. Chappinan has found even preferable from much experience during This last summer and previously, is the motion of a boat when faracticable, and he recommend that the children in this city should be carried in a boat aerof The Delaware several times during the day. But to hasten the cure and prevent a relapse, all exciting causes must be studiously avoided. Strict attention must be paid to the regimen air clothing of our patient during the whole progrep of the disease. During disease, the diet should be light and easily digested, as milk, sage, tapioca to. The drink mucillaginous. But during convalescence, the dict should gradually become more nous ishing . Flaund should be worn next the skin . The feet should particularly be keft warmy by wearing worsted stockings; for diseases of the lowels are more highly aggravated, and mon frequently occur from a want of precaution on this point than almost any other.

When the patient is evidently recovering, the regetable

titles, as B. Bark, Quapia, ecutaury, columbore, and perpanations of iron, with the occasional indulgence of a little Dost or claret wine, will impart tout to the system and confirm courabscence.

Maring charm the reduced of my different to a somalise in, I shale, Jone a englance of your plenate, and your knowledge of the unfarourable examinations under which we later from a want of time and experience, poply any apology for its improjection. But a conscious reuse of my duty, with a proping very to of paletheir, but a conscious reuse of my duty, with a proping very to of paletheir, emphales one to englave this opportunity thereon my grateful and encounted general for the apparent examination and control general the consistency and control which you have endeavour to the institute our animal, so accept the hind dops.